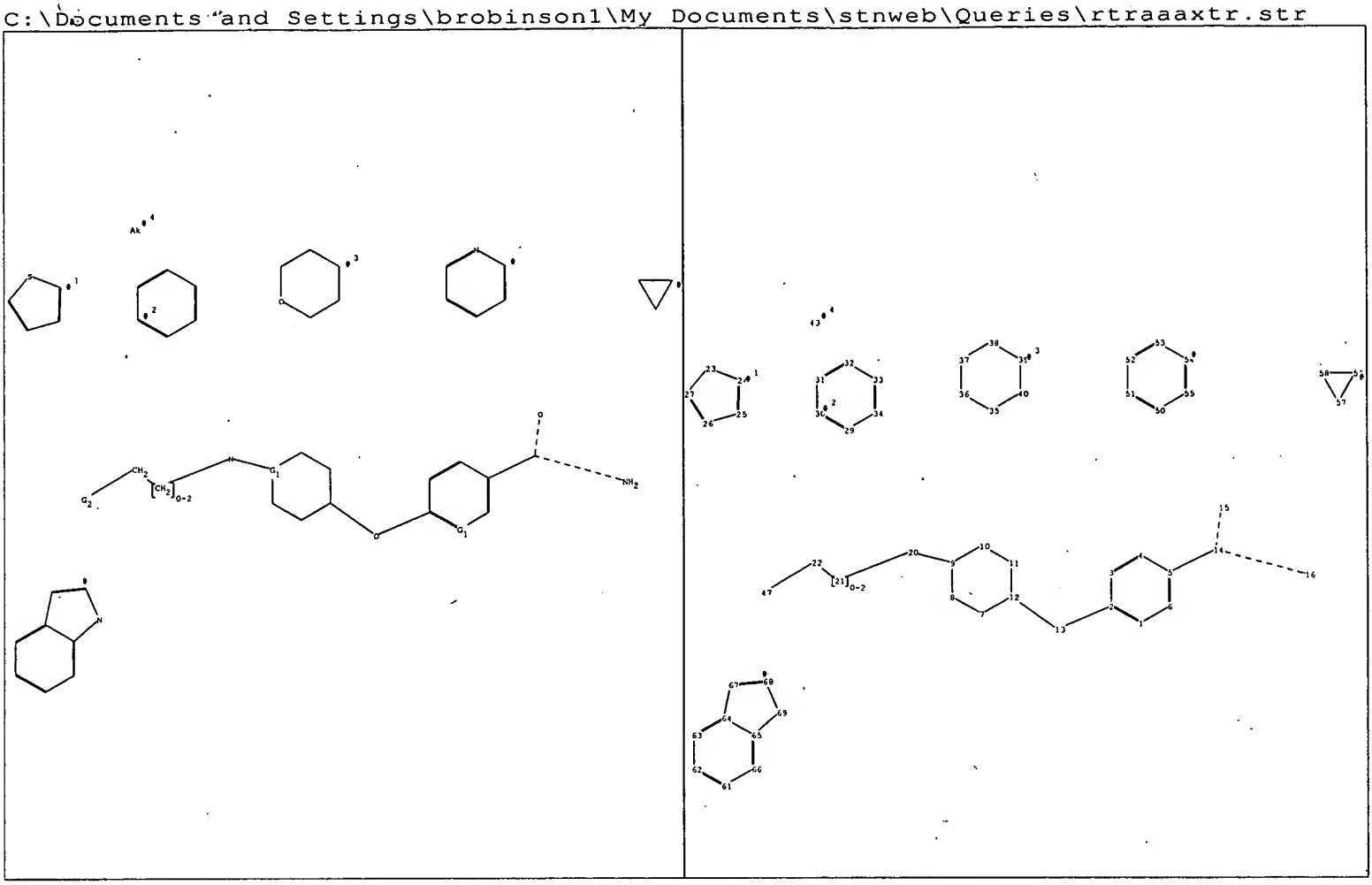
C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\rtraaaxtr.str



chain nodes :
13 14 15 16 20 21 22 43 47
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 23 24 25 26 27 29 30 31 32
33 34 35 36 37 38 39 40 50 51 52 53 54 55 57 58 59 61 62
63 64 65 66 67 68 69
chain bonds :
2-13 5-14 9-20 12-13 14-15 14-16 20-21 21-22 22-47
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 23-24
23-27 24-25 25-26 26-27 29-30 29-34 30-31 31-32 32-33 33-34 35-36
35-40 36-37 37-38 38-39 39-40 50-51 50-55 51-52 52-53 53-54 54-55
57-58 57-59 58-59 61-62 61-66 62-63 63-64 64-65 64-67 65-66 65-69
67-68 68-69
exact/norm bonds :
1-2 1-6 2-3 2-13 3-4 4-5 5-6 5-14 7-8 7-12 8-9 9-10 9-20 10-11
11-12 12-13 14-15 14-16 20-21 21-22 22-47 23-24 23-27 24-25 25-26
26-27 35-36 35-40 36-37 37-38 38-39 39-40 57-58 57-59 58-59 64-67
65-69 67-68 68-69
normalized bonds :
29-30 29-34 30-31 31-32 32-33 33-34 50-51 50-55 51-52 52-53 53-54
54-55 61-62 61-66 62-63 63-64 64-65 65-66
isolated ring systems :
containing 1 : 7 : 23 :

G1:C,N

G2:[*1],[*2],[*3],[*4]

Connectivity :
43:1 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom

11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 20:CLASS
21:CLASS 22:CLASS 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 29:Atom
30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom
38:Atom 39:Atom 40:Atom 43:CLASS 47:CLASS 50:Atom 51:Atom 52:Atom
53:Atom 54:Atom 55:Atom 57:Atom 58:Atom 59:Atom 61:Atom 62:Atom
63:Atom 64:Atom 65:Atom 66:Atom 67:Atom 68:Atom 69:Atom

10581164

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1612bxr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

```
 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  OCT 23  The Derwent World Patents Index suite of databases on STN
                  has been enhanced and reloaded
 NEWS  4  OCT 30  CHEMLIST enhanced with new search and display field
 NEWS  5  NOV 03  JAPIO enhanced with IPC 8 features and functionality
 NEWS  6  NOV 10  CA/CAplus F-Term thesaurus enhanced
 NEWS  7  NOV 10  STN Express with Discover! free maintenance release Version
                  8.01c now available
 NEWS  8  NOV 20  CA/CAplus to MARPAT accession number crossover limit increased
                  to 50,000
 NEWS  9  DEC 01  CAS REGISTRY updated with new ambiguity codes
 NEWS 10  DEC 11  CAS REGISTRY chemical nomenclature enhanced
 NEWS 11  DEC 14  WPIDS/WPINDEX/WPIX manual codes updated
 NEWS 12  DEC 14  GBFULL and FRFULL enhanced with IPC 8 features and
                  functionality
 NEWS 13  DEC 18  CA/CAplus pre-1967 chemical substance index entries enhanced
                  with preparation role
 NEWS 14  DEC 18  CA/CAplus patent kind codes updated
 NEWS 15  DEC 18  MARPAT to CA/CAplus accession number crossover limit increased
                  to 50,000
 NEWS 16  DEC 18  MEDLINE updated in preparation for 2007 reload
 NEWS 17  DEC 27  CA/CAplus enhanced with more pre-1907 records
 NEWS 18  JAN 08  CHEMLIST enhanced with New Zealand Inventory of Chemicals
 NEWS 19  JAN 16  CA/CAplus Company Name Thesaurus enhanced and reloaded
 NEWS 20  JAN 16  IPC version 2007.01 thesaurus available on STN
 NEWS 21  JAN 16  WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
 NEWS 22  JAN 22  CA/CAplus updated with revised CAS roles
 NEWS 23  JAN 22  CA/CAplus enhanced with patent applications from India
 NEWS 24  JAN 29  PHAR reloaded with new search and display fields
 NEWS 25  JAN 29  CAS Registry Number crossover limit increased to 300,000 in
                  multiple databases

 NEWS EXPRESS  NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8
 NEWS X25      X.25 communication option no longer available
```

Enter NEWS followed by the item number or name to see news on that

Updated Search

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FILE 'HOME' ENTERED AT 13:10:29 ON 01 FEB 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.05	1.05

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STRUCTURE FILE UPDATES: 31 JAN 2007 HIGHEST RN 918932-71-5
DICTIONARY FILE UPDATES: 31 JAN 2007 HIGHEST RN 918932-71-5

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\121298.str

L1 STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 13:13:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 3245 TO ITERATE

61.6% PROCESSED 2000 ITERATIONS 39 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 61484 TO 68316

Updated Search

10581164

PROJECTED ANSWERS: 788 TO 1742

L2 39 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 13:13:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 65772 TO ITERATE

100.0% PROCESSED 65772 ITERATIONS 1207 ANSWERS
SEARCH TIME: 00.00.01

L3 1207 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	173.15

FILE 'HCAPLUS' ENTERED AT 13:13:50 ON 01 FEB 2007
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FILE COVERS 1907 - 1 Feb 2007 VOL 146 ISS 6
FILE LAST UPDATED: 31 Jan 2007 (20070131/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 181 L3

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	175.75

FILE 'REGISTRY' ENTERED AT 13:13:57 ON 01 FEB 2007
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10581164

STRUCTURE FILE UPDATES: 31 JAN 2007 HIGHEST RN 918932-71-5
DICTIONARY FILE UPDATES: 31 JAN 2007 HIGHEST RN 918932-71-5

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http://www.cas.org/ONLINE/UG/regprops.html

=> s l4
L5 1207 L3

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\rtraaaxtr.str

L6 STRUCTURE UPLOADED

=> s l6
SAMPLE SEARCH INITIATED 13:22:25 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 445 TO ITERATE

100.0% PROCESSED 445 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7635 TO 10165
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L6

=> s l6 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 13:22:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 8421 TO ITERATE

100.0% PROCESSED 8421 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L8 0 SEA SSS FUL L6

Updated Search

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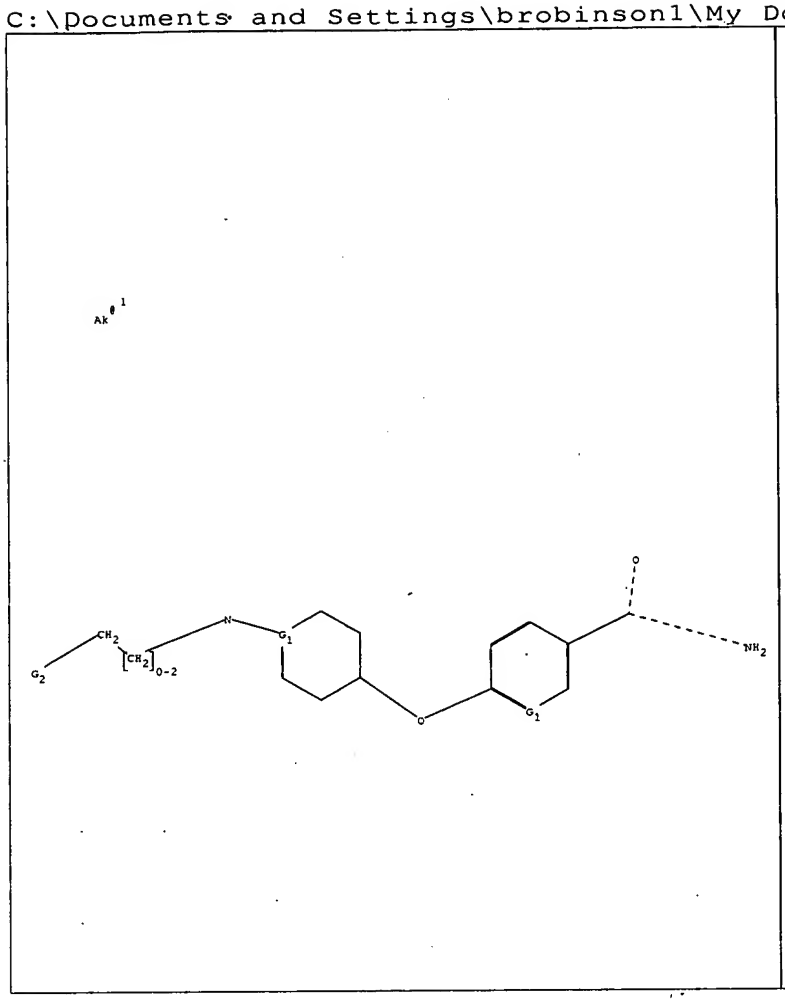

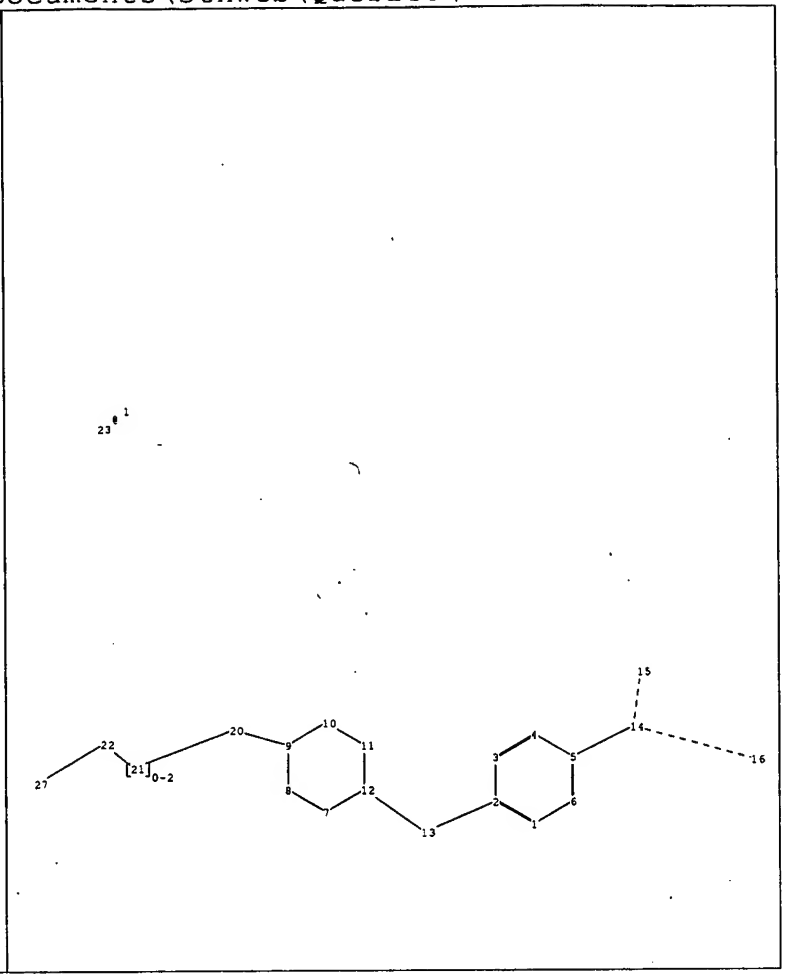

chain nodes :
13 14 15 16 20 21 22 23 27
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
2-13 5-14 9-20 12-13 14-15 14-16 20-21 21-22 22-27
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
1-2 1-6 2-3 2-13 3-4 4-5 5-6 5-14 7-8 7-12 8-9 9-10 9-20 10-11
11-12 12-13 14-15 14-16 20-21 21-22 22-27
isolated ring systems :
containing 1 : 7 :

G1:C,N

G2:Cy,[*1]

Connectivity :
23:1 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 27:CLASS

10581164

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LOGINID:ssspta1612bxr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS	5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS	6	NOV 10	CA/CAplus F-Term thesaurus enhanced
NEWS	7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS	8	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS	9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS	10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS	11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS	12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS	13	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS	14	DEC 18	CA/CAplus patent kind codes updated
NEWS	15	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS	16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	17	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS	18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	19	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS	20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	22	JAN 22	CA/CAplus updated with revised CAS roles
NEWS	23	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS	24	JAN 29	PHAR reloaded with new search and display fields
NEWS	25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases

NEWS EXPRESS	NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that

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FILE 'HOME' ENTERED AT 13:10:29 ON 01 FEB 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.05	1.05

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DICTIONARY FILE UPDATES: 31 JAN 2007 HIGHEST RN 918932-71-5

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http://www.cas.org/ONLINE/UG/regprops.html

=>
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L1 STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 13:13:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 3245 TO ITERATE

61.6% PROCESSED 2000 ITERATIONS 39 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 61484 TO 68316

Updated Search

10581164

PROJECTED ANSWERS: 788 TO 1742

L2 39 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 13:13:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 65772 TO ITERATE

100.0% PROCESSED 65772 ITERATIONS 1207 ANSWERS
SEARCH TIME: 00.00.01

L3 1207 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	173.15

FILE 'HCAPLUS' ENTERED AT 13:13:50 ON 01 FEB 2007
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FILE LAST UPDATED: 31 Jan 2007 (20070131/ED)

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=> s l3
L4 181 L3

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	175.75

FILE 'REGISTRY' ENTERED AT 13:13:57 ON 01 FEB 2007
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DICTIONARY FILE UPDATES: 31 JAN 2007 HIGHEST RN 918932-71-5

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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s l4
L5 1207 L3

=>
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Documents\stnweb\Queries\rtraaaxtr.str

L6 STRUCTURE UPLOADED

=> s l6
SAMPLE SEARCH INITIATED 13:22:25 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 445 TO ITERATE

100.0% PROCESSED 445 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7635 TO 10165
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L6

=> s l6 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 13:22:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 8421 TO ITERATE

100.0% PROCESSED 8421 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L8 0 SEA SSS FUL L6

=>
Uploading C:\Documents and Settings\brobinson1\My
Documents\stnweb\Queries\3awe4343r.str

L9 STRUCTURE UPLOADED

=> s l9

Updated Search

10581164

SAMPLE SEARCH INITIATED 13:25:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2933 TO ITERATE

68.2% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 55412 TO 61908
PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> s l9 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 13:25:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 59572 TO ITERATE

100.0% PROCESSED 59572 ITERATIONS 13 ANSWERS
SEARCH TIME: 00.00.02

L11 13 SEA SSS FUL L9

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 351.85 527.60

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=> s l11
L12 5 L11

=> d l12, ibib abs hitstr, 1-5

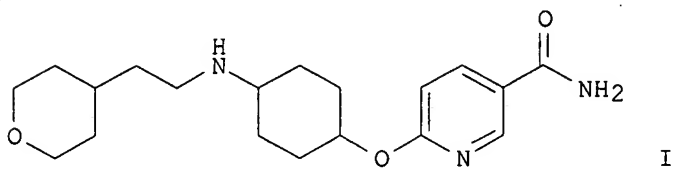
Updated Search

10581164

L12 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:588876 HCAPLUS
DOCUMENT NUMBER: 143:115448
TITLE: Nicotinamide derivatives preparation as opioid receptor antagonists
INVENTOR(S): Benesh, Dana Rae; Blanco-Pillado, Maria-Jesus
PATENT ASSIGNEE(S): Eli Lilly and Company, USA
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061442	A1	20050707	WO 2004-US38227	20041206
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004303790	A1	20050707	AU 2004-303790	20041206
CA 2549009	A1	20050707	CA 2004-2549009	20041206
EP 1697307	A1	20060906	EP 2004-811079	20041206
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1890208	A	20070103	CN 2004-80036471	20041206
US 2007010558	A1	20070111	US 2006-581164	20060531
PRIORITY APPLN. INFO.:			US 2003-529061P	P 20031212
			WO 2004-US38227	W 20041206

OTHER SOURCE(S): MARPAT 143:115448
GI



I

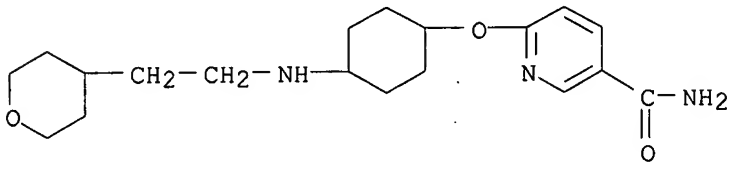
AB Nicotinamide derivs. were prepd.for use in the treatment, prevention or amelioration of obesity and related diseases. E.g., I was prepared starting from 3,3-dimethyl-1,5-dioxaspiro[5.5]undecan-9-one through a number of reaction sequences. I and a number of other derivs. were tested with the GTP-γ-S binding assay and ex vivo receptor binding.

IT 857048-52-3P 857048-53-4P 857048-54-5P
857048-55-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

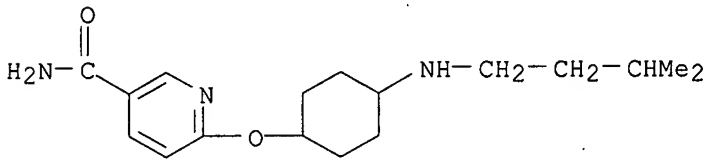
Updated Search

(Uses)
(nicotinamide derivs. preparation as opioid receptor antagonists)

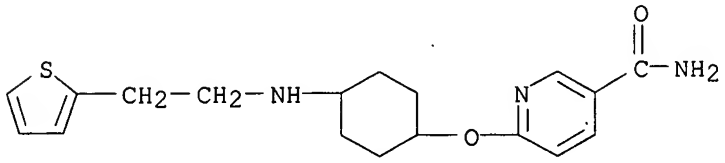
RN 857048-52-3 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[4-[[2-(tetrahydro-2H-pyran-4-yl)ethyl]amino]cyclohexyl]oxy]- (9CI) (CA INDEX NAME)



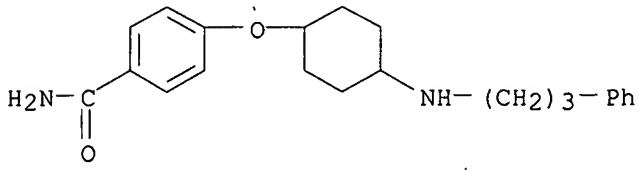
RN 857048-53-4 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[4-[(3-methylbutyl)amino]cyclohexyl]oxy]- (9CI) (CA INDEX NAME)



RN 857048-54-5 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[4-[[2-(2-thienyl)ethyl]amino]cyclohexyl]oxy]- (9CI) (CA INDEX NAME)



RN 857048-55-6 HCAPLUS
CN Benzamide, 4-[[4-[(3-phenylpropyl)amino]cyclohexyl]oxy]- (9CI) (CA INDEX NAME)



IT 857048-56-7P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nicotinamide derivs. preparation as opioid receptor antagonists)

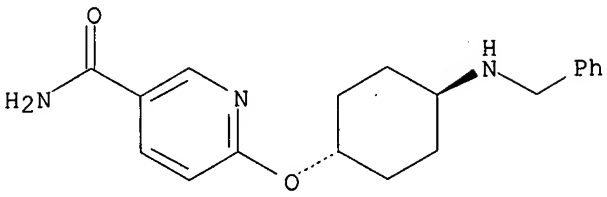
RN 857048-56-7 HCAPLUS

Updated Search

10581164

CN 3-Pyridinecarboxamide, 6-[[trans-4-[(phenylmethyl)amino]cyclohexyl]oxy]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

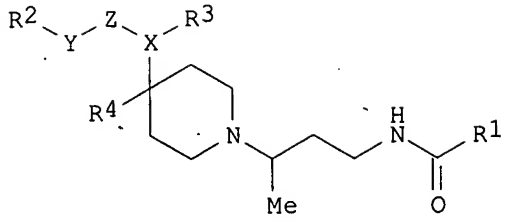
L12 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:570983 HCAPLUS
DOCUMENT NUMBER: 143:97274
TITLE: Preparation of piperidines as chemokine receptor, particularly CCR5, modulators for treatment of inflammatory and autoimmune diseases
INVENTOR(S): Bridger, Gary J.; Zhou, Yuanxi; Skerlj, Renato
PATENT ASSIGNEE(S): Anormed Inc., Can.
SOURCE: PCT Int. Appl., 384 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005059107	A2	20050630	WO 2004-US41865	20041213
WO 2005059107	A3	20060105		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2548393	A1	20050630	CA 2004-2548393	20041213
EP 1708703	A2	20061011	EP 2004-814091	20041213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				

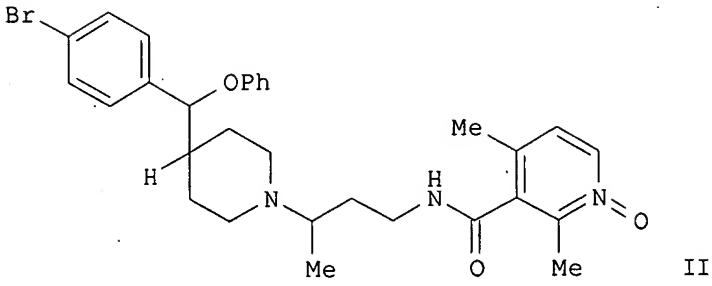
PRIORITY APPLN. INFO.: US 2003-528975P P 20031211
WO 2004-US41865 W 20041213

OTHER SOURCE(S): MARPAT 143:97274
GI

Updated Search



I



II

AB Title compds. I [wherein X = C, N; Y = O if X = C, or a bond if X = N; Z = (CH2)n; n = 0-1; R1 = (un)substituted hetero/aryl; R2 = (un)substituted hetero/aryl, N:(alkyl); R3 = (un)substituted hetero/aryl, or a Ph fused with a 5- or 6-membered heterocycle; R4 = H, alkyl; and their pharmaceutically acceptable salts] were prepared as chemokine receptor, particularly CCR5, modulators for treatment of inflammatory and autoimmune diseases. For example, coupling of 2,4-dimethyl-N-oxonicotinic acid with [3-[4-[(4-bromophenyl)phenoxymethyl]piperidin-1-yl]butyl]amine (preparation given) gave II in 82% yield. I exhibited IC50's in the range of 0.01 nM to 50 μM in an assay for inhibition of HIV-1 using PMBC and R5. Compds. I demonstrate protective effects against infection of target cells by a human immunodeficiency virus (HIV).

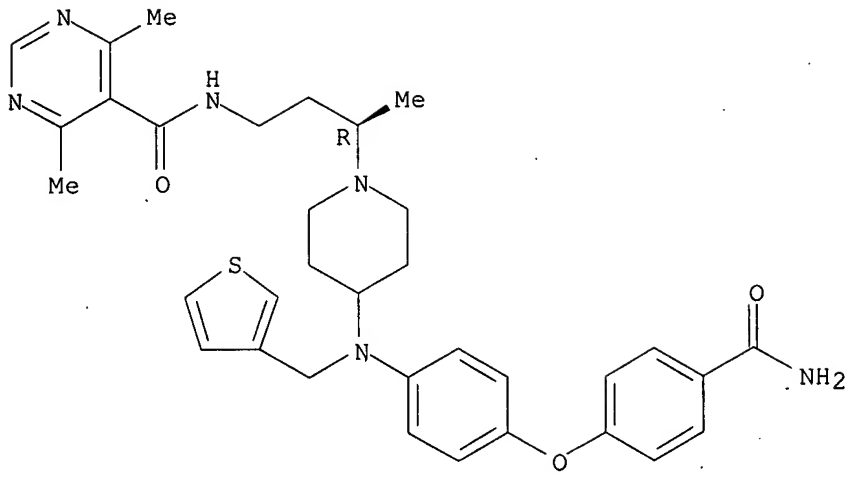
IT 856937-05-8P, 4,6-Dimethylpyrimidine-5-carboxylic acid [(R)-3-[4-[[4-(4-carbamoylphenoxy)phenyl](thien-3-ylmethyl)amino]piperidin-1-yl]butyl]amide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(CCR5 modulator; preparation of piperidines as chemokine receptor modulators for treatment of inflammatory and autoimmune diseases)

RN 856937-05-8 HCAPLUS

CN 5-Pyrimidinecarboxamide, N-[(3R)-3-[4-[[4-[4-(aminocarbonyl)phenoxy]phenyl](3-thienylmethyl)amino]-1-piperidinyl]butyl]-4,6-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10581164



L12 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:309175 HCAPLUS
DOCUMENT NUMBER: 143:90722
TITLE: Metabotropic glutamate 2 receptor potentiators: receptor modulation, frequency-dependent synaptic activity, and efficacy in preclinical anxiety and psychosis model(s)
AUTHOR(S): Johnson, Michael P.; Barda, David; Britton, Thomas C.; Emkey, Renee; Hornback, William J.; Jagdmann, G. Erik; McKinzie, David L.; Nisenbaum, Eric S.; Tizzano, Joseph P.; Schoepp, Darryle D.
CORPORATE SOURCE: Lilly Research Laboratories, Lilly Corp. Cent., Eli Lilly and Company, IN, 46285, USA
SOURCE: Psychopharmacology (Berlin, Germany) (2005), 179(1), 271-283
CODEN: PSCHDL; ISSN: 0033-3158
PUBLISHER: Springer GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To increase subtype selectivity and provide a novel means to alter receptor function, the authors discovered and characterization potentiators for the metabotropic glutamate 2 receptor (mGlu2). A class of 3-pyridylmethylsulfonamides (e.g., 3-MPPTS; 2,2,2-trifluoro-N-[3-(2-methoxyphenoxy)phenyl]-N-(3-pyridinylmethyl)-ethanesulfonamide) were found to be potent, subtype-selective potentiators of human and rat mGlu2. The sulfonamides increased agonist potency in functional assays but did not displace orthosteric radiolabeled antagonist or agonist binding to cloned mGlu2 receptors. Rather, the modulators increased the affinity of most of the orthosteric agonists including glutamate, DCG-IV ((2S,2'R,3'R)-2-(2',3'-dicarboxylcyclopropyl)glycine), and LY354740 (1S,2S,5R,6S-2-aminobicyclo[3.1.0]hexane-2,6-bicarboxylate monohydrate). In striatal brain slices, LY354740 inhibited evoked excitatory postsynaptic potentials (EPSPs) equally well following either a low- (0.06 Hz) or high (4 Hz)-frequency stimulation of corticostriatal afferents. In contrast, the mGlu2 potentiator cyPPTS (2,2,2-trifluoro-N-[3-(cyclopentyloxy)phenyl]-N-(3-pyridinylmethyl)-ethanesulfonamide) inhibited striatal EPSPs only at higher frequencies of stimulation (2 and 4 Hz). Several sulfonamides including 4-MPPTS, 4-APPES (N-[4-(4-carboxamidophenoxy)phenyl]-N-(3-pyridinylmethyl)-ethanesulfonamide hydrochloride monohydrate), and/or

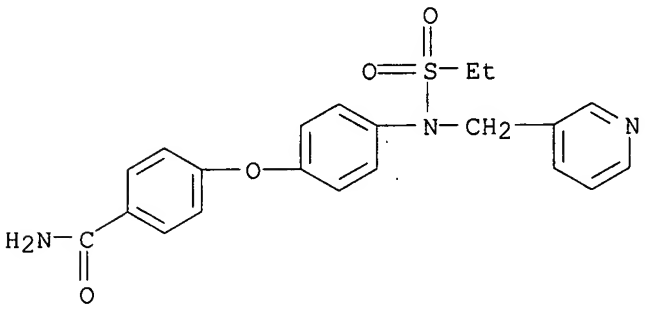
Updated Search

CBiPES (N-[4'-cyano-biphenyl-3-yl]-N-(3-pyridinylmethyl)-ethanesulfonamide hydrochloride) were tested in mGlu2/3 agonist-sensitive rodent model(s) of anxiety and psychosis. As seen with LY354740, both 4-MPPTS and 4-APPES were efficacious in a rat fear-potentiated startle paradigm. Likewise in mice, CBiPES attenuated a stress-induced hyperthermia and PCP-induced hyperlocomotor activity. Furthermore, CBiPES mediated alteration in PCP-induced hyperlocomotor activity was sensitive to mGlu2/3 antagonist pretreatment. Taken together, the data indicate mGlu2 receptor potentiators have a unique use-dependent effect on presynaptic glutamate release, and show efficacy in several mGlu2/3-sensitive animal models of psychiatric disorders.

IT 856702-39-1
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mGlu2 receptor potentiators on presynaptic glutamate release in preclin. anxiety and psychosis models)

RN 856702-39-1 HCAPLUS

CN Benzamide, 4-[4-[(ethylsulfonyl)(3-pyridinylmethyl)amino]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)



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REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:267241 HCAPLUS

DOCUMENT NUMBER: 140:303538

TITLE: Preparation of [[(aminoalkyl)aryl]oxy]nicotinamides and analogs as opioid receptor antagonist for treatment of obesity and related conditions

INVENTOR(S): Blanco-Pillado, Maria-Jesus; Chappell, Mark Donald; Garcia De la Torre, Marta; Diaz Buezo, Nuria; Fritz, James Erwin; Holloway, William Glen; Matt, James Edward, Jr.; Mitch, Charles Howard; Pedregal-Tercero, Concepcion; Quimby, Steven James; Siegel, Miles Goodman; Smith, Dana Rae; Stucky, Russell Dean; Takeuchi, Kumiko; Thomas, Elizabeth Marie; Wolfe, Chad Nolan

PATENT ASSIGNEE(S): Eli Lilly and Company, USA

SOURCE: PCT Int. Appl., 559 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

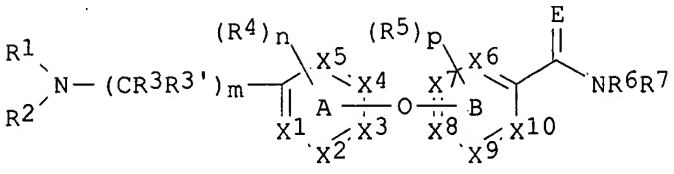
Updated Search

10581164

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004026305	A1	20040401	WO 2003-US26300	20030917
WO 2004026305	A9	20040513		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2499690	A1	20040401	CA 2003-2499690	20030917
AU 2003269980	A1	20040408	AU 2003-269980	20030917
BR 2003014308	A	20050705	BR 2003-14308	20030917
EP 1562595	A1	20050817	EP 2003-751877	20030917
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1681498	A	20051012	CN 2003-822241	20030917
JP 2006511474	T	20060406	JP 2004-537682	20030917
US 2006217372	A1	20060928	US 2005-526960	20050303
IN 2005KN00457	A	20060303	IN 2005-KN457	20050318
NO 2005001871	A	20050418	NO 2005-1871	20050418
PRIORITY APPLN. INFO.:			US 2002-412158P P	20020919
			WO 2003-US26300 W	20030917

OTHER SOURCE(S): MARPAT 140:303538
GI



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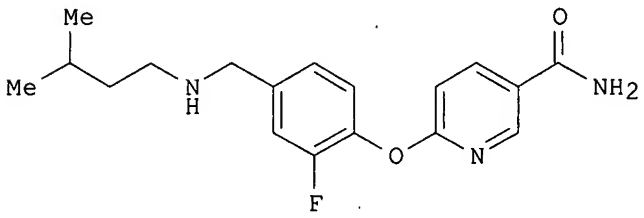


II

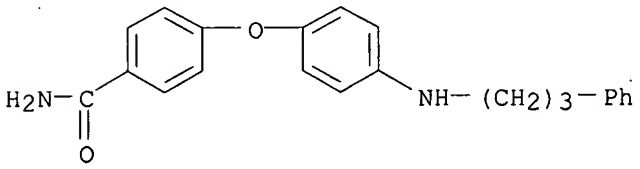
AB Title diaryl ethers I [wherein X1-X10 = independently C, CH, or N; provided that each of rings A or B has no more than 2 N atoms; E = O or

Updated Search

NH; R1 and R2 = independently H or (un)substituted (cyclo)alkyl, alkenyl, alkynyl, (alkyl)aryl, (aryl)heterocyclyl, (cyclo)alkylheterocyclyl, (cyclo)alkanoylalkyl, aroylalkyl, aryloxyalkyl, benzhydryl, bicyclyl(alkyl), benzoyl(alkyl), alkoxyalkyl, alkoxycarbonyl, (aryl)alkylsulfonyl, heterocyclylalkylsulfonyl, cycloalkylalkyl, carboxyalkyl, carbamoylalkyl, etc.; R3 and R3' = independently H, alkyl, alkenyl, alkynyl, (alkyl)aryl, or alkylcycloalkyl; R4 and R5 = independently H, (halo)alkyl, alkenyl, alkynyl, alkoxy(halo)alkyl, thioalkyl, halo, aryl(alkyl), alkanoyl, alkoxycarbonyl, aminoalkyl, cycloalkylalkyl, etc.; R6 and R7 = independently H, (cyclo)alkyl, alkenyl, alkynyl, alkanoyl, OH, alkoxy, (aryl)alkylsulfonyl, heterocyclylalkylsulfonyl, aryl(alkyl), carbamoyl(alkyl), etc.; m = 1-3; n = 0-3; p = 0-3; or pharmaceutically acceptable salts, solvates, enantiomers, racemates, diastereomers, or mixts. thereof] were prepared as μ-, κ-, and δ-opioid receptor antagonists. For example, reductive amination of 6-(2-fluoro-4-formylphenoxy)nicotinamide and 3-methylbutylamine provided II (99%). The latter inhibited ex vivo binding of [3H]-diprenorphine in rat striatum/nucleus accumbens by >65% at a concentration of 7 mg/kg. In an acute feeding rat obesity assay, II suppressed opioid receptors at a dose of 0.3 μg/kg. In addition, diet-induced obese rats achieved an energy balance (caloric intake minus utilization) of -81 kcal/kg/day upon administration of 0.3 mg/kg p.o. of II in an indirect calorimetry assay. Thus, I and their pharmaceutical compns. are useful for the treatment, prevention, or amelioration of obesity and related diseases.

IT 676495-22-0P, 4-[4-(3-Phenylpropylamino)phenoxy]benzamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(opioid receptor antagonist; preparation of (aryloxy)nicotinamides and analogs as opioid receptor antagonist for treatment of obesity and related conditions)

RN 676495-22-0 HCAPLUS
CN Benzamide, 4-[4-[(3-phenylpropyl)amino]phenoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:581845 HCAPLUS
DOCUMENT NUMBER: 135:152723
TITLE: Preparation of N-phenyl-N-alkylsulfonyl(pyridylmethyl)amines as potentiators of glutamate receptors
INVENTOR(S): Coleman, Darrell Stephen; Jagdmann, Gunnar Erik Junior; Johnson, Kirk Willis; Johnson, Michael Parvin; Large, Thomas Hallett; Monn, James Allen; Schoepp, Darryle Darwin; Tizzano, Joseph Patrick; Barda, David Anthony; Britton, Thomas Charles; Dressman, Bruce

Updated Search

10581164

Anthony; Fichtner, Michael William; Henry, Steven Scott; Hornback, William Joseph

PATENT ASSIGNEE(S): Eli Lilly and Company, USA

SOURCE: PCT Int. Appl., 247 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

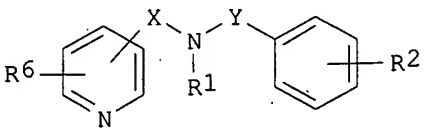
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001056990	A2	20010809	WO 2001-US643	20010122
WO 2001056990	A3	20020425		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, SZ, BE, CY, FR, GR, IE, IT, MC, NL, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1255735	A2	20021113	EP 2001-906521	20010122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004006114	A1	20040108	US 2002-182961	20021120
US 6800651	B2	20041005		

PRIORITY APPLN. INFO.:			
US 2000-180047P	P	20000203	
US 2000-180089P	P	20000203	
WO 2001-US643	W	20010122	

OTHER SOURCE(S): MARPAT 135:152723

GI



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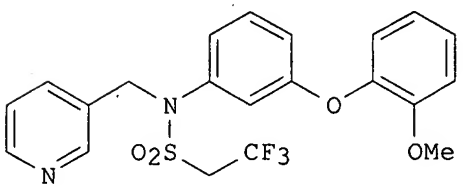


II

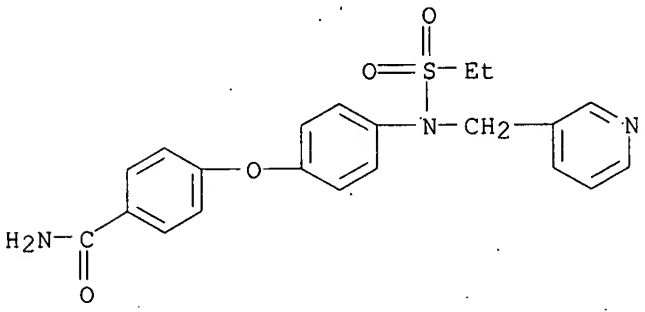
AB The title compds. [I; R1 = COR3, CO2R4, SO2R5 (wherein R3 = alkyl, cycloalkyl; R4 = alkyl, cycloalkyl; R5 = alkyl, cycloalkyl, fluorinated alkyl); R2 = H, OH, alkyl, etc.; or two R2 are taken together, on adjacent

Updated Search

position, to form a fused cycloalkyl or methylenedioxy ring; R6 = H, alkyl, alkoxy, etc.; X = a bond, CH2, (CH2)2, CH(alkyl); Y = a bond, CH2, (CH2)2, etc.] and their pharmaceutically acceptable salts which are potentiators of metabotropic glutamate receptor function, in particular mGlu2 and/or mGlu3 receptors, and therefore useful in treating migraine, anxiety, epilepsy and schizophrenia, were prepared and formulated. Thus, reductive alkylation of 3-(2-methoxyphenoxy)aniline (preparation given) with pyridine-3-carboxaldehyde in the presence of NaBH4 followed by alkylation of the resulting N-[3-(2-methoxyphenoxy)phenyl]pyrid-3-methylamine with F3CCH2SO2Cl afforded the amine II which showed to act at a site other than the glutamate recognition site to potentiate the effects of glutamate at mGlu receptors (data given).

IT 353233-13-3P 353234-76-1P 353235-43-5P
353235-49-1P 353237-68-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-phenyl-N-alkylsulfonyl(pyridylmethyl)amines as potentiators of glutamate receptors)

RN 353233-13-3 HCAPLUS
CN Benzamide, 4-[4-[(ethylsulfonyl)(3-pyridinylmethyl)amino]phenoxy]-, hydrochloride (10:11) (9CI) (CA INDEX NAME)



●11/10 HCl

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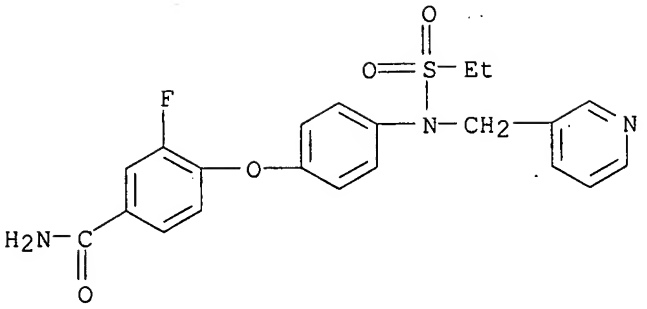

● HCl

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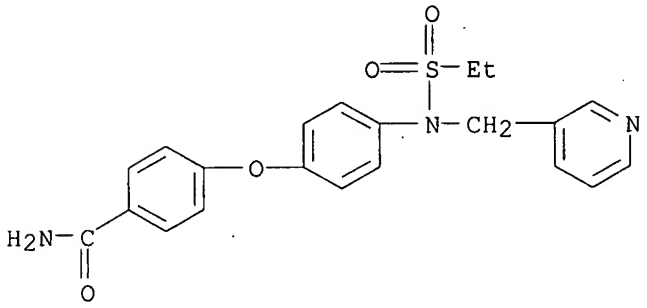

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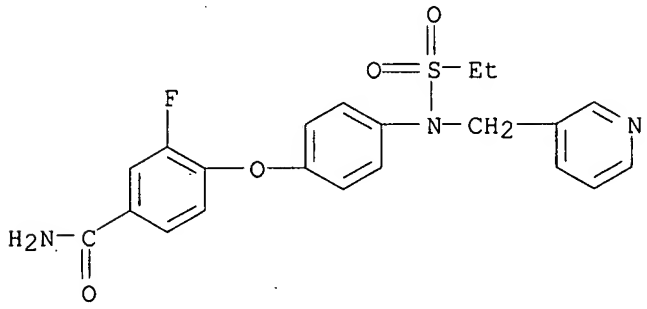
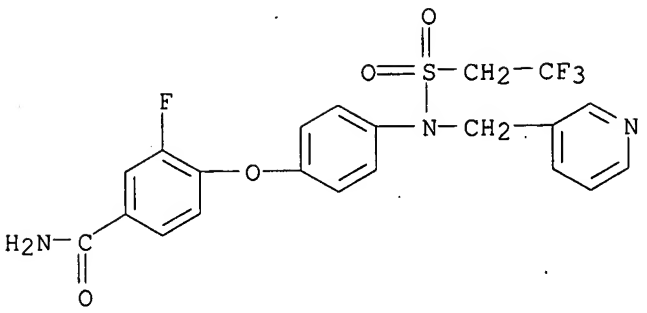
CN Benzamide, 4-[4-[(ethylsulfonyl)(3-pyridinylmethyl)amino]phenoxy]-3-fluoro- (9CI) (CA INDEX NAME)



RN 353237-68-0 HCAPLUS
CN Benzamide, 3-fluoro-4-[4-[(3-pyridinylmethyl)[(2,2,2-trifluoroethyl)sulfonyl]amino]phenoxy]- (9CI) (CA INDEX NAME)

Updated Search

10581164



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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    28.95     556.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -3.90      -3.90

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FILE COVERS 1907-1966
FILE LAST UPDATED:  01 May 1997 (19970501/UP)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.  Title keywords, authors, patent
  assignees, and patent information, e.g., patent numbers, are
  now searchable from 1907-1966.  TIFF images of CA abstracts
  printed between 1907-1966 are available in the PAGE
  display formats.

  New CAS Information Use Policies, enter HELP USAGETERMS for details.

  This file supports REG1stRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
  more information.

=> d his

     (FILE 'HOME' ENTERED AT 13:10:29 ON 01 FEB 2007)

     FILE 'REGISTRY' ENTERED AT 13:13:16 ON 01 FEB 2007
L1             STRUCTURE UPLOADED
L2              39 S L1
L3            1207 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 13:13:50 ON 01 FEB 2007
L4             181 S L3

     FILE 'REGISTRY' ENTERED AT 13:13:57 ON 01 FEB 2007
L5            1207 S L4
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Updated Search

10581164

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L6                STRUCTURE UPLOADED
L7              0 S L6
L8              0 S L6 FULL
L9                STRUCTURE UPLOADED
L10             0 S L9
L11            13 S L9 FULL

     FILE 'HCAPLUS' ENTERED AT 13:25:17 ON 01 FEB 2007
L12             5 S L11

     FILE 'CAOLD' ENTERED AT 13:25:31 ON 01 FEB 2007

=> s l11
L13             0 L11
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Updated Search

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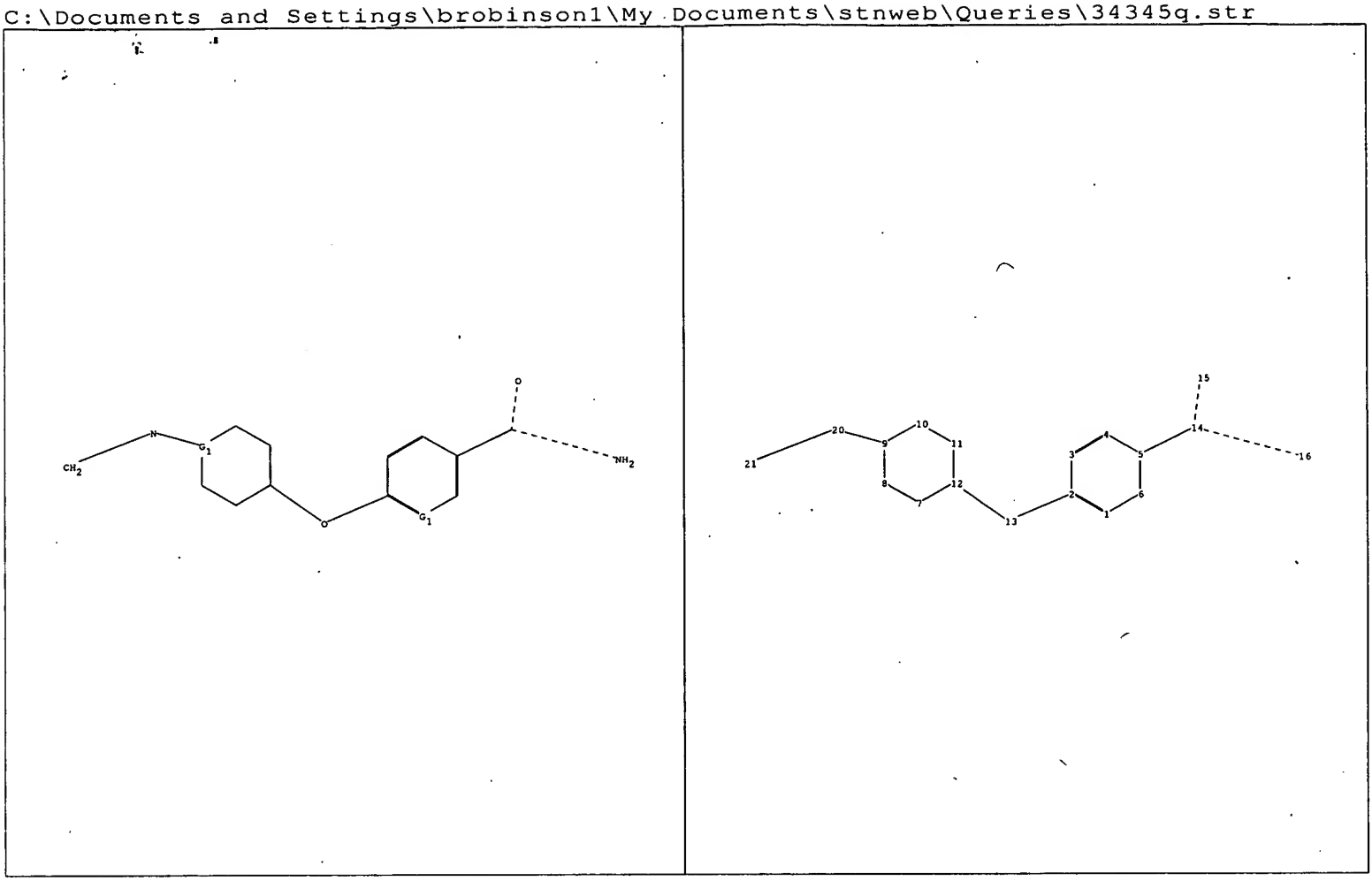

chain nodes :
13 14 15 16 20 21
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
2-13 5-14 9-20 12-13 14-15 14-16 20-21
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
1-2 1-6 2-3 2-13 3-4 4-5 5-6 5-14 7-8 7-12 8-9 9-10 9-20 10-11
11-12 12-13 14-15 14-16 20-21
isolated ring systems :
containing 1 : 7 :

G1:C,N

G2:Cy

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 20:CLASS
21:CLASS

10581164

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1612bxr

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAOLD' AT 13:39:24 ON 01 FEB 2007
FILE 'CAOLD' ENTERED AT 13:39:24 ON 01 FEB 2007
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	557.00

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.90

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	557.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.90

FILE 'REGISTRY' ENTERED AT 13:40:09 ON 01 FEB 2007
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 31 JAN 2007 HIGHEST RN 918932-71-5
DICTIONARY FILE UPDATES: 31 JAN 2007 HIGHEST RN 918932-71-5

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
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http://www.cas.org/ONLINE/UG/regprops.html

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Uploading C:\Documents and Settings\brobinson1\My
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Updated Search

10581164

L14 STRUCTURE UPLOADED

=> d l14
L14 HAS NO ANSWERS
L14 STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l14
SAMPLE SEARCH INITIATED 13:41:14 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 757 TO ITERATE

100.0% PROCESSED 757 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 13490 TO 16790
PROJECTED ANSWERS: 1 TO 80

L15 1 SEA SSS SAM L14

=> s l14 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 13:41:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 15385 TO ITERATE

100.0% PROCESSED 15385 ITERATIONS 15 ANSWERS
SEARCH TIME: 00.00.01

L16 15 SEA SSS FUL L14

=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.55	730.00

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.90

FILE 'CAOLD' ENTERED AT 13:41:24 ON 01 FEB 2007
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

Updated Search

10581164

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=> s l16
L17 0 L16

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	730.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.90

FILE 'HCAPLUS' ENTERED AT 13:41:30 ON 01 FEB 2007
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 1 Feb 2007 VOL 146 ISS 6
FILE LAST UPDATED: 31 Jan 2007 (20070131/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l16
L18 7 L16

=> d l18, ibib abs hitstr, 1-7

L18 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:588876 HCAPLUS
DOCUMENT NUMBER: 143:115448
TITLE: Nicotinamide derivatives preparation as opioid receptor antagonists
INVENTOR(S): Benesh, Dana Rae; Blanco-Pillado, Maria-Jesus
PATENT ASSIGNEE(S): Eli Lilly and Company, USA
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

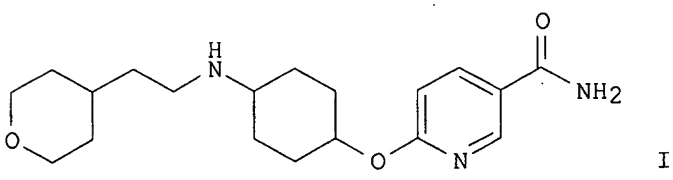
Updated Search

10581164

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2005061442	A1	20050707	WO 2004-US38227		20041206
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2004303790	A1	20050707	AU 2004-303790		20041206
CA 2549009	A1	20050707	CA 2004-2549009		20041206
EP 1697307	A1	20060906	EP 2004-811079		20041206
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS					
CN 1890208	A	20070103	CN 2004-80036471		20041206
US 2007010558	A1	20070111	US 2006-581164		20060531
PRIORITY APPLN. INFO.:			US 2003-529061P	P	20031212
			WO 2004-US38227	W	20041206

OTHER SOURCE(S): MARPAT 143:115448
GI



I

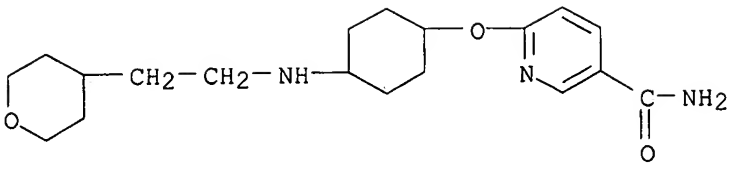
AB Nicotinamide derivs. were prepd.for use in the treatment, prevention or amelioration of obesity and related diseases. E.g., I was prepared starting from 3,3-dimethyl-1,5-dioxaspiro[5.5]undecan-9-one through a number of reaction sequences. I and a number of other derivs. were tested with the GTP-γ-S binding assay and ex vivo receptor binding.

IT 857048-52-3P 857048-53-4P 857048-54-5P
857048-55-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nicotinamide derivs. preparation as opioid receptor antagonists)

RN 857048-52-3 HCAPLUS

CN 3-Pyridinecarboxamide, 6-[[4-[[2-(tetrahydro-2H-pyran-4-yl)ethyl]amino]cyclohexyl]oxy]- (9CI) (CA INDEX NAME)

Updated Search



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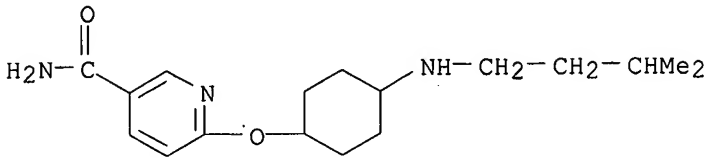

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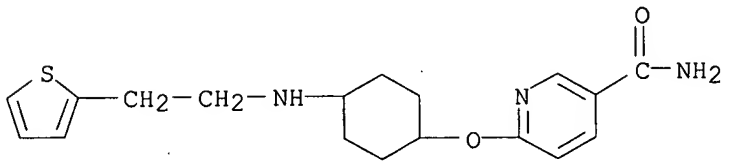
CN 3-Pyridinecarboxamide, 6-[[4-[[2-(2-thienyl)ethyl]amino]cyclohexyl]oxy]- (9CI) (CA INDEX NAME)



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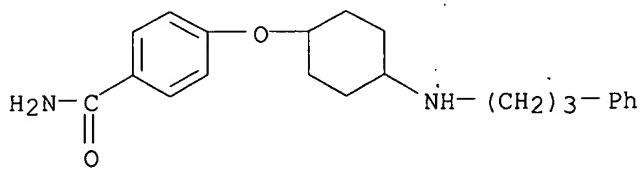
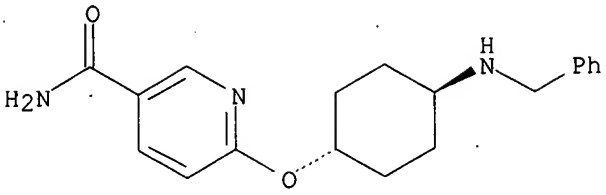


IT 857048-56-7P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nicotinamide derivs. preparation as opioid receptor antagonists)
RN 857048-56-7 HCAPLUS
CN 3-Pyridinecarboxamide, 6-[[trans-4-[(phenylmethyl)amino]cyclohexyl]oxy]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Updated Search

10581164



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

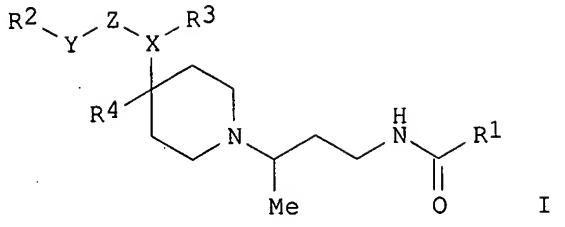
L18 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:570983 HCAPLUS
DOCUMENT NUMBER: 143:97274
TITLE: Preparation of piperidines as chemokine receptor, particularly CCR5, modulators for treatment of inflammatory and autoimmune diseases
INVENTOR(S): Bridger, Gary J.; Zhou, Yuanxi; Skerlj, Renato
PATENT ASSIGNEE(S): Anormed Inc., Can.
SOURCE: PCT Int. Appl., 384 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005059107	A2	20050630	WO 2004-US41865	20041213
WO 2005059107	A3	20060105		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2548393	A1	20050630	CA 2004-2548393	20041213
EP 1708703	A2	20061011	EP 2004-814091	20041213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				

PRIORITY APPLN. INFO.: US 2003-528975P P 20031211
WO 2004-US41865 W 20041213

OTHER SOURCE(S): MARPAT 143:97274
GI

Updated Search



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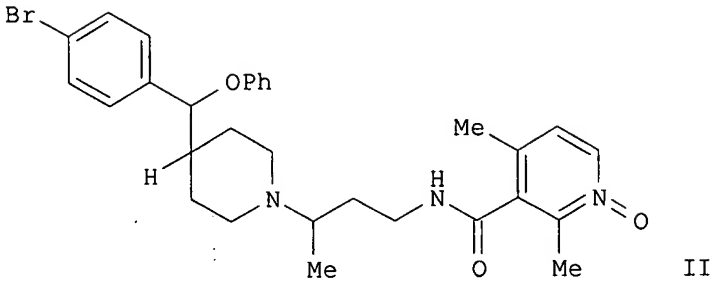


II

AB Title compds. I [wherein X = C, N; Y = O if X = C, or a bond if X = N; Z = (CH2)n; n = 0-1; R1 = (un)substituted hetero/aryl; R2 = (un)substituted hetero/aryl, N:(alkyl); R3 = (un)substituted hetero/aryl, or a Ph fused with a 5- or 6-membered heterocycle; R4 = H, alkyl; and their pharmaceutically acceptable salts] were prepared as chemokine receptor, particularly CCR5, modulators for treatment of inflammatory and autoimmune diseases. For example, coupling of 2,4-dimethyl-N-oxonicotinic acid with [3-[4-[(4-bromophenyl)phenoxymethyl]piperidin-1-yl]butyl]amine (preparation given) gave II in 82% yield. I exhibited IC50's in the range of 0.01 nM to 50 μM in an assay for inhibition of HIV-1 using PMBC and R5. Compds. I demonstrate protective effects against infection of target cells by a human immunodeficiency virus (HIV).

IT 856937-05-8P, 4,6-Dimethylpyrimidine-5-carboxylic acid [(R)-3-[4-[[4-(4-carbamoylphenoxy)phenyl](thien-3-ylmethyl)amino]piperidin-1-yl]butyl]amide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(CCR5 modulator; preparation of piperidines as chemokine receptor modulators for treatment of inflammatory and autoimmune diseases)

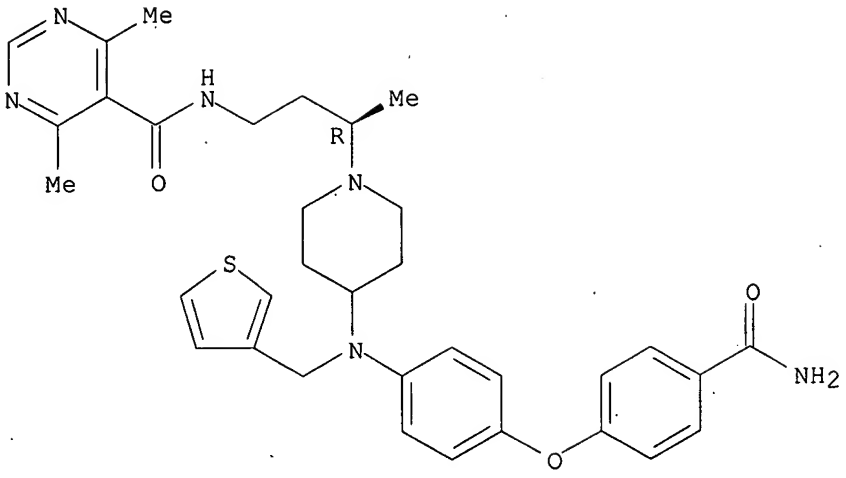
RN 856937-05-8 HCAPLUS

CN 5-Pyrimidinecarboxamide, N-[(3R)-3-[4-[[4-[4-(aminocarbonyl)phenoxy]phenyl](3-thienylmethyl)amino]-1-piperidinyl]butyl]-4,6-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Updated Search

10581164



L18 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:309175 HCAPLUS
DOCUMENT NUMBER: 143:90722
TITLE: Metabotropic glutamate 2 receptor potentiators: receptor modulation, frequency-dependent synaptic activity, and efficacy in preclinical anxiety and psychosis model(s)
AUTHOR(S): Johnson, Michael P.; Barda, David; Britton, Thomas C.; Emkey, Renee; Hornback, William J.; Jagdmann, G. Erik; McKinzie, David L.; Nisenbaum, Eric S.; Tizzano, Joseph P.; Schoepp, Darryle D.
CORPORATE SOURCE: Lilly Research Laboratories, Lilly Corp. Cent., Eli Lilly and Company, IN, 46285, USA
SOURCE: Psychopharmacology (Berlin, Germany) (2005), 179(1), 271-283
CODEN: PSCHDL; ISSN: 0033-3158
PUBLISHER: Springer GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To increase subtype selectivity and provide a novel means to alter receptor function, the authors discovered and characterization potentiators for the metabotropic glutamate 2 receptor (mGlu2). A class of 3-pyridylmethylsulfonamides (e.g., 3-MPPTS; 2,2,2-trifluoro-N-[3-(2-methoxyphenoxy)phenyl]-N-(3-pyridinylmethyl)-ethanesulfonamide) were found to be potent, subtype-selective potentiators of human and rat mGlu2. The sulfonamides increased agonist potency in functional assays but did not displace orthosteric radiolabeled antagonist or agonist binding to cloned mGlu2 receptors. Rather, the modulators increased the affinity of most of the orthosteric agonists including glutamate, DCG-IV ((2S,2'R,3'R)-2-(2',3'-dicarboxylcyclopropyl)glycine), and LY354740 (1S,2S,5R,6S-2-aminobicyclo[3.1.0]hexane-2,6-bicarboxylate monohydrate). In striatal brain slices, LY354740 inhibited evoked excitatory postsynaptic potentials (EPSPs) equally well following either a low- (0.06 Hz) or high (4 Hz)-frequency stimulation of corticostriatal afferents. In contrast, the mGlu2 potentiator cyPPTS (2,2,2-trifluoro-N-[3-(cyclopentyloxy)phenyl]-N-(3-pyridinylmethyl)-ethanesulfonamide) inhibited striatal EPSPs only at higher frequencies of stimulation (2 and 4 Hz). Several sulfonamides including 4-MPPTS, 4-APPES (N-[4-(4-carboxamidophenoxy)phenyl]-N-(3-pyridinylmethyl)-ethanesulfonamide hydrochloride monohydrate), and/or

Updated Search

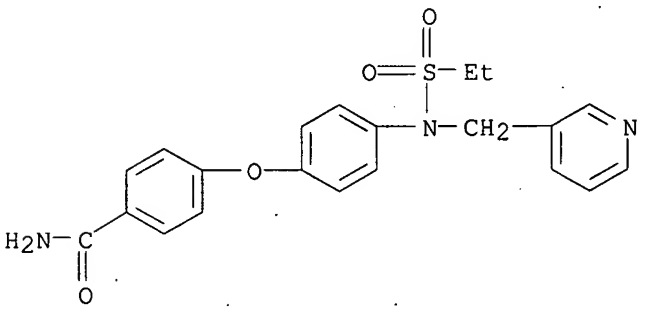
10581164

CBiPES (N-[4'-cyano-biphenyl-3-yl]-N-(3-pyridinylmethyl)-ethanesulfonamide hydrochloride) were tested in mGlu2/3 agonist-sensitive rodent model(s) of anxiety and psychosis. As seen with LY354740, both 4-MPPTS and 4-APPES were efficacious in a rat fear-potentiated startle paradigm. Likewise in mice, CBiPES attenuated a stress-induced hyperthermia and PCP-induced hyperlocomotor activity. Furthermore, CBiPES mediated alteration in PCP-induced hyperlocomotor activity was sensitive to mGlu2/3 antagonist pretreatment. Taken together, the data indicate mGlu2 receptor potentiators have a unique use-dependent effect on presynaptic glutamate release, and show efficacy in several mGlu2/3-sensitive animal models of psychiatric disorders.

IT 856702-39-1
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mGlu2 receptor potentiators on presynaptic glutamate release in preclin. anxiety and psychosis models)

RN 856702-39-1 HCAPLUS

CN Benzamide, 4-[4-[(ethylsulfonyl)(3-pyridinylmethyl)amino]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:267241 HCAPLUS
DOCUMENT NUMBER: 140:303538
TITLE: Preparation of [[(aminoalkyl)aryl]oxy]nicotinamides and analogs as opioid receptor antagonist for treatment of obesity and related conditions
INVENTOR(S): Blanco-Pillado, Maria-Jesus; Chappell, Mark Donald; Garcia De la Torre, Marta; Diaz Buezo, Nuria; Fritz, James Erwin; Holloway, William Glen; Matt, James Edward, Jr.; Mitch, Charles Howard; Pedregal-Tercero, Concepcion; Quimby, Steven James; Siegel, Miles Goodman; Smith, Dana Rae; Stucky, Russell Dean; Takeuchi, Kumiko; Thomas, Elizabeth Marie; Wolfe, Chad Nolan
PATENT ASSIGNEE(S): Eli Lilly and Company, USA
SOURCE: PCT Int. Appl., 559 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

Updated Search

10581164

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004026305	A1	20040401	WO 2003-US26300	20030917
WO 2004026305	A9	20040513		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2499690	A1	20040401	CA 2003-2499690	20030917
AU 2003269980	A1	20040408	AU 2003-269980	20030917
BR 2003014308	A	20050705	BR 2003-14308	20030917
EP 1562595	A1	20050817	EP 2003-751877	20030917
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1681498	A	20051012	CN 2003-822241	20030917
JP 2006511474	T	20060406	JP 2004-537682	20030917
US 2006217372	A1	20060928	US 2005-526960	20050303
IN 2005KN00457	A	20060303	IN 2005-KN457	20050318
NO 2005001871	A	20050418	NO 2005-1871	20050418
PRIORITY APPLN. INFO.:			US 2002-412158P P	20020919
			WO 2003-US26300 W	20030917

OTHER SOURCE(S): MARPAT 140:303538
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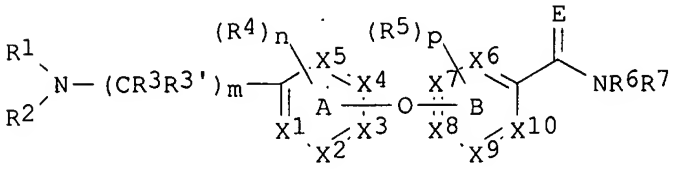

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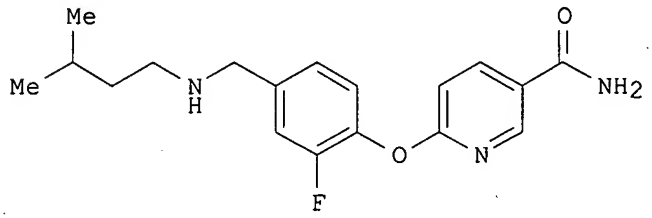


II

AB Title diaryl ethers I [wherein X1-X10 = independently C, CH, or N; provided that each of rings A or B has no more than 2 N atoms; E = O or

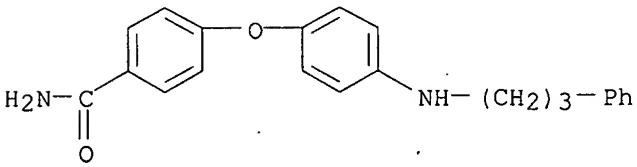
Updated Search

NH; R1 and R2 = independently H or (un)substituted (cyclo)alkyl, alkenyl, alkynyl, (alkyl)aryl, (aryl)heterocyclyl, (cyclo)alkylheterocyclyl, (cyclo)alkanoylalkyl, aroylalkyl, aryloxyalkyl, benzhydryl, bicyclyl(alkyl), benzoyl(alkyl), alkoxyalkyl, alkoxycarbonyl, (aryl)alkylsulfonyl, heterocyclylalkylsulfonyl, cycloalkylalkyl, carboxyalkyl, carbamoylalkyl, etc.; R3 and R3' = independently H, alkyl, alkenyl, alkynyl, (alkyl)aryl, or alkylcycloalkyl; R4 and R5 = independently H, (halo)alkyl, alkenyl, alkynyl, alkoxy(halo)alkyl, thioalkyl, halo, aryl(alkyl), alkanoyl, alkoxycarbonyl, aminoalkyl, cycloalkylalkyl, etc.; R6 and R7 = independently H, (cyclo)alkyl, alkenyl, alkynyl, alkanoyl, OH, alkoxy, (aryl)alkylsulfonyl, heterocyclylalkylsulfonyl, aryl(alkyl), carbamoyl(alkyl), etc.; m = 1-3; n = 0-3; p = 0-3; or pharmaceutically acceptable salts, solvates, enantiomers, racemates, diastereomers, or mixts. thereof] were prepared as μ-, κ-, and δ-opioid receptor antagonists. For example, reductive amination of 6-(2-fluoro-4-formylphenoxy)nicotinamide and 3-methylbutylamine provided II (99%). The latter inhibited ex vivo binding of [3H]-diprenorphine in rat striatum/nucleus accumbens by >65% at a concentration of 7 mg/kg. In an acute feeding rat obesity assay, II suppressed opioid receptors at a dose of 0.3 μg/kg. In addition, diet-induced obese rats achieved an energy balance (caloric intake minus utilization) of -81 kcal/kg/day upon administration of 0.3 mg/kg p.o. of II in an indirect calorimetry assay. Thus, I and their pharmaceutical compns. are useful for the treatment, prevention, or amelioration of obesity and related diseases.

IT 676495-22-0P, 4-[4-(3-Phenylpropylamino)phenoxy]benzamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(opioid receptor antagonist; preparation of (aryloxy)nicotinamides and analogs as opioid receptor antagonist for treatment of obesity and related conditions)

RN 676495-22-0 HCAPLUS

CN Benzamide, 4-[4-[(3-phenylpropyl)amino]phenoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:17852 HCAPLUS
DOCUMENT NUMBER: 140:71038
TITLE: Pharmaceutical compositions containing aliphatic N-containing 5-membered compounds as dipeptidylpeptidase IV (DPPIV) inhibitors
INVENTOR(S): Yasuda, Kosuke; Morimoto, Keiji; Kanan, Saburo; Hikota, Masaki; Matsumoto, Takeshi; Arakawa, Kenji
PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 129 pp.
CODEN: JKXXAF

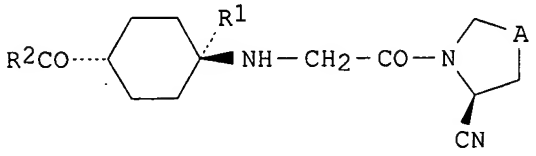
Updated Search

10581164

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004002367	A	20040108	JP 2003-101361	20030404
PRIORITY APPLN. INFO.:			JP 2002-102757 A	20020404

OTHER SOURCE(S): MARPAT 140:71038
GI



I

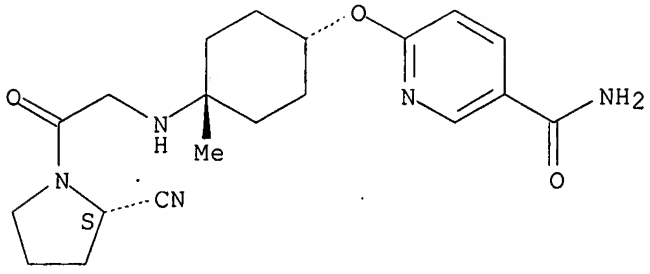
AB The compns., useful for prevention and treatment of type 2 diabetes, contain the compds. I [A = CH2, S; R1 = H, lower alkyl, hydroxyalkyl, alkoxyalkyl; R2 = (un)substituted mono-, di-, or tricyclic hydrocarbyl, heterocyclyl, (un)substituted amino] or their salts. I.HCl (A = CH2, R1 = H, R2 = NMe2) in vitro inhibited human blood serum DPPIV with IC50 of 3 nM.

IT 412286-40-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aliphatic N-containing 5-membered compds. as dipeptidylpeptidase IV inhibitors)

RN 412286-40-9 HCAPLUS

CN 3-Pyridinecarboxamide, 6-[[cis-4-[[2-[(2S)-2-cyano-1-pyrrolidinyl]-2-oxoethyl]amino]-4-methylcyclohexyl]oxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

Updated Search

10581164

L18 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:293616 HCAPLUS
DOCUMENT NUMBER: 136:325560
TITLE: Preparation of aliphatic nitrogenous five-membered ring compounds as dipeptidyl peptidase IV inhibitors
INVENTOR(S): Yasuda, Kosuke; Morimoto, Hiroshi; Kawanami, Saburo; Hikota, Masataka; Matsumoto, Takeshi; Arakawa, Kenji
PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
SOURCE: PCT Int. Appl., 164 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002030891	A1	20020418	WO 2001-JP8803	20011005
W: AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, PH, PL, RO, SG, SI, SK, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 200194197	A	20020422	AU 2001-94197	20011005
JP 2002356471	A	20021213	JP 2001-309558	20011005
JP 2002356472	A	20021213	JP 2001-309559	20011005
CA 2424600	A1	20030402	CA 2001-2424600	20011005
BR 2001014436	A	20030701	BR 2001-14436	20011005
EP 1325910	A1	20030709	EP 2001-974717	20011005
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CN 1468216	A	20040114	CN 2001-816674	20011005
HU 200303391	A2	20040301	HU 2003-3391	20011005
NZ 524974	A	20051028	NZ 2001-524974	20011005
CN 1891689	A	20070110	CN 2006-10077863	20011005
IN 2003KN00303	A	20050311	IN 2003-KN303	20030312
ZA 2003002030	A	20030926	ZA 2003-2030	20030313
NO 2003001490	A	20030602	NO 2003-1490	20030402
US 2004063935	A1	20040401	US 2003-398486	20030404
US 6849622	B2	20050201		
JP 2004035574	A	20040205	JP 2003-368572	20031029
US 2004229926	A1	20041118	US 2004-872442	20040622
US 7160877	B2	20070109		
AU 2004237882	A1	20050106	AU 2004-237882	20041213
JP 2005200427	A	20050728	JP 2005-105732	20050401

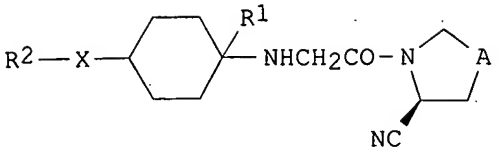
PRIORITY APPLN. INFO.:

JP 2000-308528	A	20001006
JP 2000-312562	A	20001012
JP 2001-99251	A	20010330
CN 2001-816674	A3	20011005
JP 2001-309558	A3	20011005
JP 2001-309559	A3	20011005
WO 2001-JP8803	W	20011005
US 2003-398486	A3	20030404

OTHER SOURCE(S): MARPAT 136:325560
GI

Updated Search

10581164



I

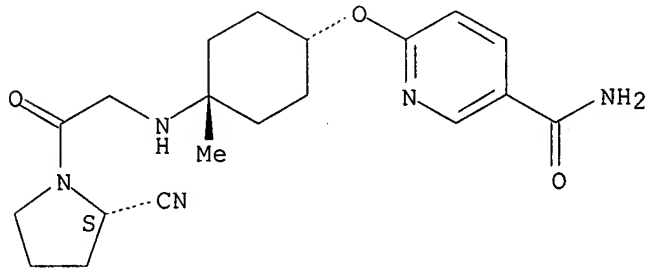
AB Aliphatic nitrogenous five-membered ring compds., (S)-N-(N-cyclohexylglycyl)pyrrolidine-2-carbonitrile and (R)-N-(N-cyclohexylglycyl)thiazolidine-2-carbonitrile, of the general formula (I) or pharmacol. acceptable salts thereof [wherein A is CH2 or S; R1 is hydrogen, lower alkyl, hydroxy-lower alkyl, or lower alkoxy-lower alkyl; X is N(R3), O, or CO; R3 is hydrogen or lower alkyl; and R2 is an optionally substituted mono- or bicyclic hydrocarbyl or heterocyclyl group or optionally substituted amino] are prepared These compds. are useful as dipeptidyl peptidase IV inhibitors for the prevention or treatment of diabetes, in particular type II diabetes (no data). Thus, a solution of (S)-1-bromoacetyl-2-cyanopyrrolidine and N-(5-nitro-2-pyridyl)-trans-1,4-cyclohexanediamine in MeOH/MeCN was stirred at room temperature for 15 h to give, after treatment with 2 N HCl/Et2O in EtOAc/CHCl3, (S)-2-cyano-1-[[[trans-4-(5-nitro-2-pyridylamino)cyclohexyl]amino]acetyl]pyrrolidine dihydrochloride.

IT 412286-40-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (S)-N-(N-cyclohexylglycyl)pyrrolidine-2-carbonitriles and (R)-N-(N-cyclohexylglycyl)thiazolidine-2-carbonitriles as dipeptidyl peptidase IV inhibitors for prevention or treatment of diabetes)

RN 412286-40-9 HCAPLUS

CN 3-Pyridinecarboxamide, 6-[[cis-4-[[2-[(2S)-2-cyano-1-pyrrolidinyl]-2-oxoethyl]amino]-4-methylcyclohexyl]oxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:581845 HCAPLUS

Updated Search

10581164

DOCUMENT NUMBER: 135:152723
TITLE: Preparation of N-phenyl-N-alkylsulfonyl(pyridylmethyl)amines as potentiators of glutamate receptors
INVENTOR(S): Coleman, Darrell Stephen; Jagdmann, Gunnar Erik Junior; Johnson, Kirk Willis; Johnson, Michael Parvin; Large, Thomas Hallett; Monn, James Allen; Schoepp, Darryle Darwin; Tizzano, Joseph Patrick; Barda, David Anthony; Britton, Thomas Charles; Dressman, Bruce Anthony; Fichtner, Michael William; Henry, Steven Scott; Hornback, William Joseph
PATENT ASSIGNEE(S): Eli Lilly and Company, USA
SOURCE: PCT Int. Appl., 247 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

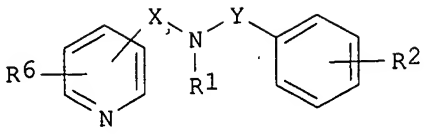
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001056990	A2	20010809	WO 2001-US643	20010122
WO 2001056990	A3	20020425		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, SZ, BE, CY, FR, GR, IE, IT, MC, NL, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1255735	A2	20021113	EP 2001-906521	20010122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004006114	A1	20040108	US 2002-182961	20021120
US 6800651	B2	20041005		

PRIORITY APPLN. INFO.:		
US 2000-180047P	P	20000203
US 2000-180089P	P	20000203
WO 2001-US643	W	20010122

OTHER SOURCE(S): MARPAT 135:152723
GI

Updated Search

10581164



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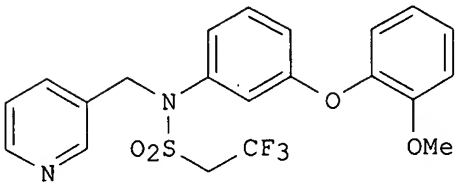


II

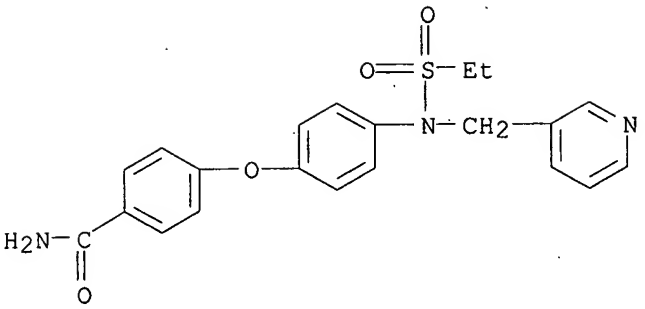
AB The title compds. [I; R1 = COR3, CO2R4, SO2R5 (wherein R3 = alkyl, cycloalkyl; R4 = alkyl, cycloalkyl; R5 = alkyl, cycloalkyl, fluorinated alkyl); R2 = H, OH, alkyl, etc.; or two R2 are taken together, on adjacent position, to form a fused cycloalkyl or methylenedioxy ring; R6 = H, alkyl, alkoxy, etc.; X = a bond, CH2, (CH2)2, CH(alkyl); Y = a bond, CH2, (CH2)2, etc.] and their pharmaceutically acceptable salts which are potentiators of metabotropic glutamate receptor function, in particular mGlu2 and/or mGlu3 receptors, and therefore useful in treating migraine, anxiety, epilepsy and schizophrenia, were prepared and formulated. Thus, reductive alkylation of 3-(2-methoxyphenoxy)aniline (preparation given) with pyridine-3-carboxaldehyde in the presence of $NaBH_4$ followed by alkylation of the resulting N-[3-(2-methoxyphenoxy)phenyl]pyrid-3-methylamine with F3CCH2SO2Cl afforded the amine II which showed to act at a site other than the glutamate recognition site to potentiate the effects of glutamate at mGlu receptors (data given).

IT 353233-13-3P 353234-76-1P 353235-43-5P
353235-49-1P 353237-68-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-phenyl-N-alkylsulfonyl(pyridylmethyl)amines as potentiators of glutamate receptors)

RN 353233-13-3 HCAPLUS

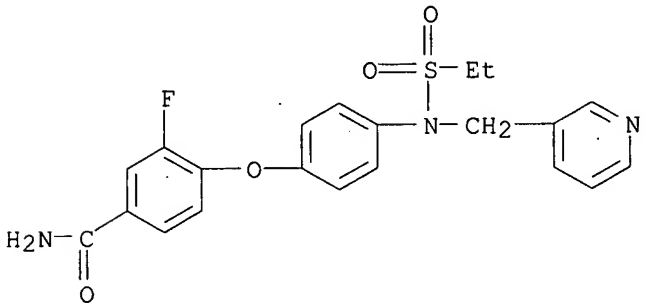
CN Benzamide, 4-[4-[(ethylsulfonyl)(3-pyridinylmethyl)amino]phenoxy]-, hydrochloride (10:11) (9CI) (CA INDEX NAME)

Updated Search



●11/10 HCl

RN 353234-76-1 HCAPLUS
CN Benzamide, 4-[4-[(ethylsulfonyl)(3-pyridinylmethyl)amino]phenoxy]-3-fluoro-, monohydrochloride (9CI) (CA INDEX NAME)



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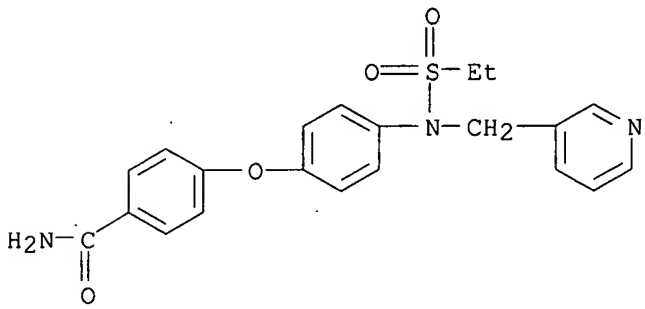
RN 353235-43-5 HCAPLUS
CN Benzamide, 4-[4-[(ethylsulfonyl)(3-pyridinylmethyl)amino]phenoxy]- (9CI) (CA INDEX NAME)



RN 353235-49-1 HCAPLUS
CN Benzamide, 4-[4-[(ethylsulfonyl)(3-pyridinylmethyl)amino]phenoxy]-3-fluoro-

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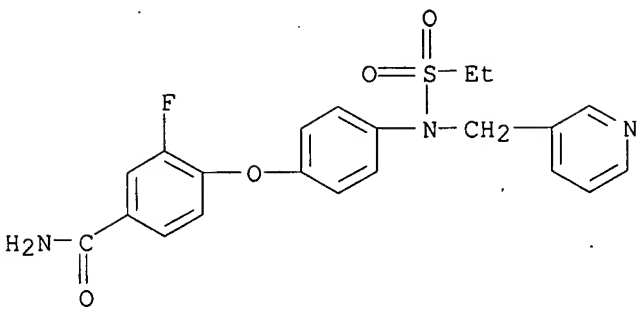
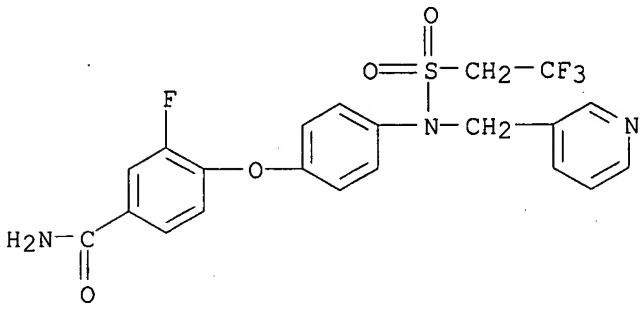
(9CI) (CA INDEX NAME)



RN 353237-68-0 HCAPLUS
CN Benzamide, 3-fluoro-4-[4-[(3-pyridinylmethyl)[(2,2,2-trifluoroethyl)sulfonyl]amino]phenoxy]- (9CI) (CA INDEX NAME)



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